DECLARATION

Attorney ket No. <u>YOR9-2001-0230 (8728-504)</u>



AS A BELOW NAMED INVENTOR, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe that I am the original, first and sole (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

the specification of which either is attached hereto or indicates an attorney docket no. YOR9-2001-0230 (8728-504), or:

INFORMATION RETRIEVAL WITH NON-NEGATIVE MATRIX FACTORIZATION TITLE:

\square was filed in the U.S. Patent & T	rademark Office on	_ and assigned Serial No,	
and (if applicable) was amende	d on		
as amended by any amendment repatentability and to the examination I hereby claim foreign priority benefits inventor's certificate, or §365(a)	eferred to above. I acknowle of this application in accordant is under Title 35, U.S. Code of any PCT international apple also identified below any fore	nts of the above-identified specification dge the duty to disclose information ince with Title 37 of the Code of Fed. 119(a)-(d) or §365(b) of any foreign a citation which designated at least one eign applications for patent or invented:	n which is material to eral Regulations §1.56. application(s) for patent e country other than the
a a	•		Priority Claimed:
(Application Number)	(Country)	(Day/Month/Year filed)	Yes [] No []
			Yes [] No []
(Application Number)	(Country)	(Day/Month/Year filed)	
States provisional application(s), or insofar as the subject matter of ea International application(s) in the m to disclose information material to p	§365(c) of any PCT Internation ch of the claims of this applianner provided by the first para atentability as defined in Title 3	of any United States application(s), of all application designating the United Station is not disclosed in the prior agraph of Title 35, U.S. Code, §112, 7, The Code of Federal Regulations, ational or PCT international filing designs.	States, listed below and, United States or PCT I acknowledge the duty §1.56(a) which became
(Application Serial Number)	(Filing Date)	(STATUS: patented, p	pending, abandoned)
(Application Serial Number)	(Filing Date)	(STATUS: patented, p	pending, abandoned)
			NIC DESIGNATE D

I hereby appoint the following attorneys: MANNY W. SCHECTER, Reg. No. 31,722; LAUREN C. BRUZZONE, Reg. 35,082; CHRISTOPHER A. HUGHES, Reg. No. 26,914; JOHN E. HOEL, Reg. No. 26,279; JOSEPH C. REDMOND, Jr., Reg. No. 18,753; PAUL J. OTTERSTEDT, Reg. No. 37,411; DOUGLAS W. CAMERON, Reg. No. 31,596; STEPHEN C. KAUFMAN, Reg. No. 29,551; DANIEL P. MORRIS, Reg. No. 32,053; LOUIS J. PERCELLO, Reg. No. 33,206; MARIAN UNDERWEISER, Reg. No. 46,134; ROBERT M. TREPP, Reg. No. 25,933; LOUIS P. HERZBERG, Reg. No. 41,500; RICHARD M. LUDWIN, Reg. No. 33,010; MARC A. EHRLICH, Reg. No. 39,966; ROBERT P. TASSINARI, JR., Reg. No. 36,030; and DEREK S. JENNINGS, Reg. No. 41,473, GAIL ZARICK, Reg. No. 43,303; TIMOTHY M. FARRELL, Reg. No. 37,321; each of them of INTERNATIONAL BUSINESS MACHINES CORPORATION, Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598; to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

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I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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<u> </u>	· · · · · · · · · · · · · · · · · · ·	Date:
Post offfice Address:		
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Inventor's signature: _ Residence:	·.	Date:
Post Office Address:	s.	
FULL NAME OF FIF	TH JOINT INVENTOR:	Citizenship
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Post Office Address:		
FULL NAME OF SIX	TH JOINT INVENTOR:	Citizenship
Inventor's signature: _ Residence:	·	Date:

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